

PROJECT DESCRIPTION:

THIS PROJECT PROVIDES MODIFICATIONS TO AN EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 187 (OLD GEORGETOWN ROAD), RYLAND DRIVE, AND A PRIVATE DRIVEWAY FOR ST. JANE DeCHANTAL CHURCH AND SCHOOL. THE WORK IS NECESSITATED BY IMPROVEMENTS ON AND ADJACENT TO THE ST. JANE DeCHANTAL SITE, INCLUDING GEOMETRIC IMPROVEMENTS ON MD 187. THE WORK INVOLVES THE RELOCATION OF SIGNAL HEADS AND INSTALLATION OF NEW LOOP DETECTORS FOR THE ST. JANE DRIVEWAY EGRESS, AS WELL AS RELOCATION OF A LOOP DETECTOR ON SOUTHBOUND MD 187 TO ACCOMMODATE AN EXTENDED LEFT TURN LANE. MD 187 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

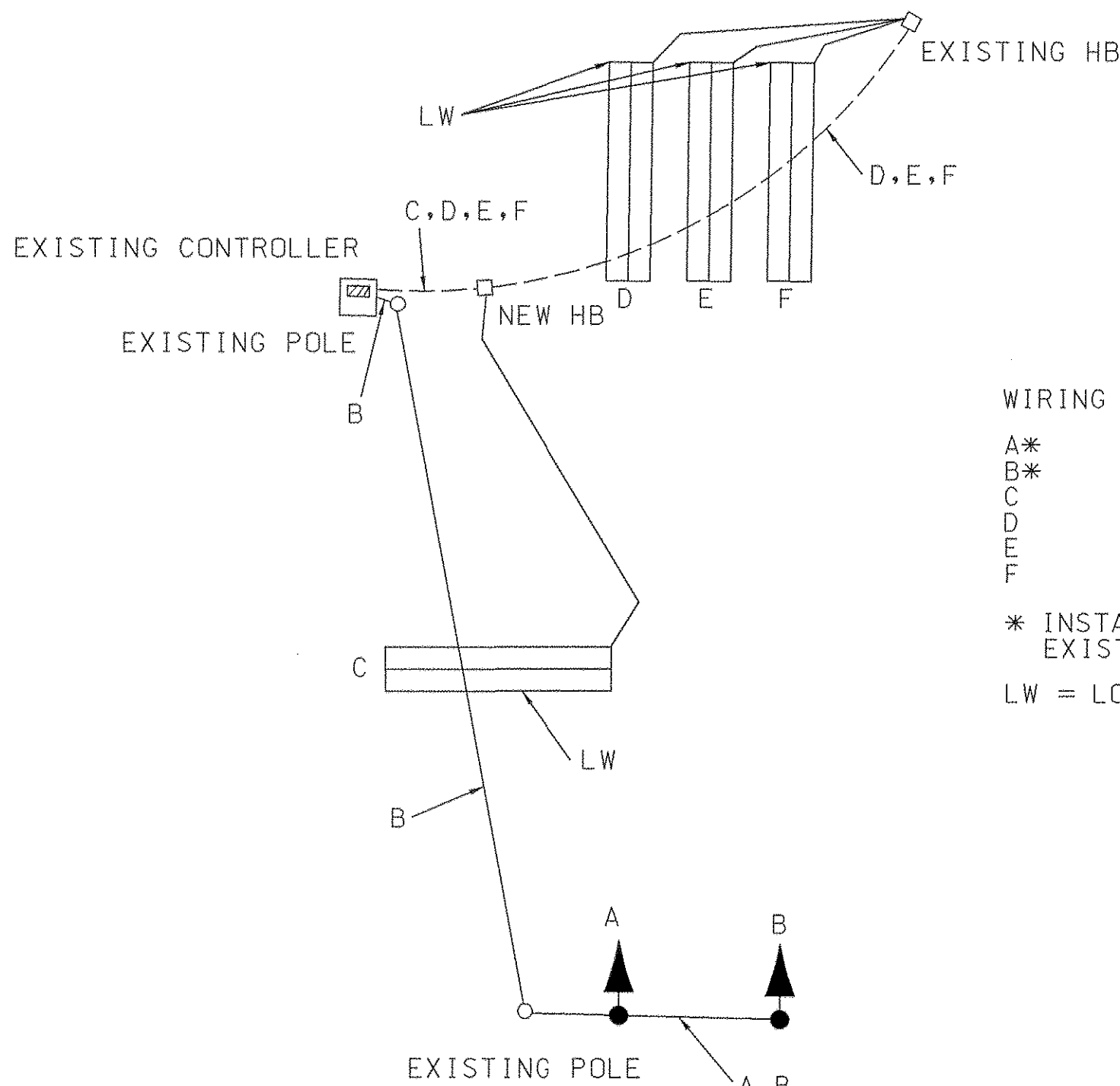
CONTROLLER OPERATION:

NO CHANGES IN THE OPERATION OF THE EXISTING 8-PHASE NEMA CONTROLLER ARE PLANNED. THE CONTROLLER CURRENTLY OPERATES IN A SEMI-ACTUATED MODE, WITH SIX OPERATING PHASES INCLUDING EXCLUSIVE/PERMISSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 187, NON-ACTUATED PHASES FOR MAIN LINE MD 187, AND CONCURRENT (DUAL-ENTRY) ACTUATED PHASES FOR RYLAND DRIVE AND THE ST. JANE DeCHANTAL DRIVEWAY OPPOSITE.

ALL EQUIPMENT IS TO BE FURNISHED AND INSTALLED BY THE (SIGNAL) CONTRACTOR. CATALOG CUTS SHALL BE SUBMITTED FOR ALL NEW EQUIPMENT FURNISHED.

QUANTITY	UNITS	SHA SPEC	DESCRIPTION
LUMP SUM	LS	104	MAINTENANCE OF TRAFFIC
6	EA	814	12" 3-SECTION (R,Y,G) ADJUSTABLE BLACK FACE SIGNAL HEADS WITH SPAN
			WIRE MOUNTING AND TUNNEL VISORS, PER SECTION
560	LF	815	SAWCUT FOR LOOP DETECTOR AND LEAD-IN
2000	LF	810	LOOP DETECTOR WIRE, #14 AWG, ENCASED IN FLEXIBLE TUBING
320	LF	810	2-CONDUCTOR ALUMINUM-SHIELDED CABLE, #14 AWG
25	LF	810	5-CONDUCTOR ELECTRICAL CABLE, #14 AWG
225	LF	810	7-CONDUCTOR ELECTRICAL CABLE, #14 AWG
40	LF	805	1" GALVANIZED STEEL CONDUIT FOR LOOP DETECTOR SLEEVES
85	LF	555	24" WIDE HEAT-APPLIED PREFORMED PAVEMENT MARKING FOR STOP LINE, WHITE
400	LF	555	5" WIDE HEAT-APPLIED PREFORMED PAVEMENT MARKING FOR LANE LINES, WHITE
LUMP SUM	LS	--	REMOVE AND DISPOSE REPLACED SIGNALS AND CABLES
2	EA	--	2" GALVANIZED/PERFORATED SQUARE TUBING, 10' LENGTH, WITH 2.25" SLEEVE, 3' LENGTH
2	EA	813	24"x30" KEEP RIGHT (MUTCD R4-7) SIGNS, HIGH-INTENSITY SHEETING
			(SHA SPEC 950.03.02), ROUNDED CORNERS
1	EA	820	NEMA-STANDARD 2-CHANNEL LOOP DETECTOR AMPLIFIER.
1	EA	813	30"x36" LANE CONTROL (MUTCD R3-5L) SIGN, HI SHEETING, WITH SPAN-WIRE MOUNTING HARDWARE
3	EA	555	HEAT-APPLIED PREFORMED PAVEMENT MARKING ARROWS (LEFT, THRU, RIGHT)
1	EA	811	STANDARD SHA HANDBOX, 18"x 24"
3	CY	201	CLASS I EXCAVATION
25	SF	610	4" CONCRETE SIDEWALK

REVISION "C" WIRING DIAGRAM



WIRING KEY (ALL #14 A.W.G.)

A* 5C (JUMPER)
B* 7C
C 2C (ALUMINUM SHIELDED)
D 2C (ALUMINUM SHIELDED)
E 2C (ALUMINUM SHIELDED)
F 2C (ALUMINUM SHIELDED)

* INSTALL ONLY IF INSUFFICIENT SLACK EXISTS IN EXISTING CABLE.

LW = LOOP WIRE

CONTACT PERSONS FOR SHA DISTRICT 3 ARE AS FOLLOWS:

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ASSISTANT DISTRICT ENGINEER - TRAFFIC
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CONTACT PERSON FOR MONTGOMERY COUNTY TRAFFIC MANAGEMENT CENTER:

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DAVE SCHWARTZ
SIGNAL SHOP WAREHOUSE
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REVISIONS	APPROVALS
<div>8-20-00 DW/SGM/2 RELOCATE SB SIGNAL HEADS AND DETECTORS. RELOCATE LOOP FOR EXTENDED SB LEFT TURN LANE RYS/JGZ JCA 12-18-95 ADD E/P FOR EB/MB MD 187 DW/DC1 2-25-91 REURAW / ASBULD AND REPLACE DEFECTIVE LOOPS S.H.A. NO. M-550-501-377 HRT/STS</div>	<div>TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION DIRECTOR, TRAFFIC & SAFETY</div>



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 187 (OLD GEORGETOWN RD) AND RYLAND DR

DRAWN BY: J GUNDEL
CHECKED BY: J CUTRO
SCALE: 1"=20'
DATE: 11-29-00

F.A.P. NO.
S.H.A. NO. M-650-501-377
COUNTY: MONTGOMERY
LOG MILE: 15018702.44

TS NO.
TS-3141C
T.I.M.S. NO.
D886

SHEET NO.
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